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Claims:

1 1. A message communication protocol for traversing a firewall in a network
2 comprising at least one router and at least one firewall and a plurality of nodes comprising a first
3 node protected by said firewall, said protocol comprising:

registering a first node with a router;

registering a second node with said router;

initiating by said first node a first connection between said first node and said router through said firewall;

initiating by said second node a second connection between said second node and said router;

maintaining said first connection between said first node and said router; sending a message from said second node to said router; sending said message from said router to said first node; and receiving said message at said first node.

- 2. The protocol of Claim 1, wherein said first node comprises a first agent and said node comprises a second agent for sending and receiving messages.
- 3. The protocol of Claim 2, wherein said router assigning a first ID and a second ID to said first and second software agents, respectively.
- 4. A message communication protocol for traversing a firewall in a network comprising at least one router and at least one firewall and a plurality of nodes wherein at least one node is protected by said firewall, said protocol comprising:
- 4 registering a first node with a router;
- 5 registering a second node with said router;
- 6 establishing a first connection between said first node and said router;
- sending a message for said second node from said first node to said router;
- 8 receiving at said router said message;

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establishing a second connection between said second node and said router and
determining whether there is a message for said second node;
sending said message from said router to said second node; and

receiving said message at said second node.

- 5. The protocol of Claim 4, wherein said first node comprises a first agent and said node comprises a second agent for sending and receiving messages.
 - 6. The protocol of Claim 5, wherein said router assigning a first ID and a second ID to said first and second software agents, respectively.
 - 7. A computer program product for communicating in a network comprising at least one router and at least one firewall and a plurality of nodes wherein at least one node is protected by said firewall; the computer program product comprising a computer readable storage medium and a computer program mechanism embedded therein, the computer program mechanism comprising:

instructions for registering a first node with a first router;

instructions for initiating by said first node a first connection between said first node and said first router through said firewall;

instructions for maintaining said first connection between said first node and said first router; and

instructions for receiving a message at said first node, said message is originated from a second node in said network and forwarded by said first router to said first node.

- 8. The computer program product of Claim 7 further comprising:
- instructions for registering said second node with a second router;
- instructions for initiating by said second node a second connection between said second node and said second router; and
- instructions for sending the message from said second node to said second router;
 - 9. The computer program product of Claim 8 further comprising:

- 2 instructions for determining whether to send the message to a router or to said first node.
- 1 10. The computer program product of Claim 9 further comprising:
- 2 instructions for sending said message from said second router to said first node.
- 1 The computer program product of Claim 10 further comprising:
- 2 instructions for sending said message from said second router to said first router; and
- instructions for sending said message from said first router to said first node.
 - 12. A computer program product for communicating in a network comprising at least one router and at least one firewall and a plurality of nodes, the computer program product for receiving at a first node a message sent by a second node, said first node protected by a firewall coupled to a first router; the computer program product comprising a computer readable storage medium and a computer program mechanism embedded therein, the computer program mechanism comprising:

instructions for establishing a connection between said first node and said first router; instructions for determining whether there is a message at said first router for said first node;

instructions for transferring said message at said first router to said first node when there is a message in said first router for said first node; and

instructions for receiving said message at said first node.

- 1 13. The computer program product of Claim 12 further comprising:
- 2 instructions for registering said first node with said first router;
- 3 instructions for registering said second node with a second router;
- 4 instructions for sending a message from said second node to said second router; and
- 5 instructions for receiving at said second router said message.

- 1 14. The computer program product of Claim 13 further comprising:
- instructions for determining at said second router whether to send the message to said first router or to store the message in said second router.
- 1 15. The computer program product of Claim 14 further comprising instructions for determining at said first router whether to send the message to a router or to store the message in said first router.